# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT ELIZABETH A. HANLEY LAHIVE & COCKFIELD, LLP 28 STATE STREET BOSTON MA 02109 NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION DOCKETE (PCT Rule 44.1) Amend often Search Dec 29, 2001 Date of Mailing (day/month/year) 29 OCT 2001 Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below MBZ-001PC International application No. International filing date (day/month/year) 18 APRIL 2001 PCT/US01/12097 Applicant METABOLON, INC. The applicant is hereby notified that the international search report has been established and is transmitted herewith. 1. X Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. The applicant is reminded of the following: Further action(s): Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later). Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II. Name and mailing address of the ISA/US Authorized of Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230 Form PCT/ISA/220 (July 1998)★

## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: ELIZABETH A. HANLEY LAHIVE & COCKFIELD, LLP 28 STATE STREET	PCT			
BOSTON MA 02109	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION			
	(PCT Rule 44.1)			
·	Date of Mailing 29 OCT 2001			
Applicant's or agent's file reference  MBZ-001PC	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US01/12097	International filing date (day/month/year)  13 APRIL 2001			
Applicant METABOLON, INC.	·			
1. X The applicant is hereby notified that the international search report has been established and is transmitted herewith.  Filing of amendments and statement under Article 19:  The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):				
When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.				
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35				
For more detailed instructions, see the notes on	the accompanying sheet.			
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.				
8. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Further action(s): The applicant is reminded of the following:  Shortly after 18 months from the priority date, the international application will be published by the International Bureau.				
If the applicant wishes to avoid or postpone publication	on, a notice of withdrawal of the international application, or of the as provided in rules $90  bis  1$ and $90  bis  3$ , respectively, before the			
Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).				
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.				
Name and mailing address of the ISA/US	Authorized officer			
Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	ARUN CHAKRABARTI LOGISTO for			

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (July 1998)★

(See notes on accompanying sheet)

# PATENT COOPERATION TRLATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: ELIZABETH A. HANLEY LAHIVE & COCKFIELD, LLP	PCT			
28 STATE STREET BOSTON MA 02109	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION			
	(PCT Rule 44.1)			
- ·	Date of Mailing (day/month/year) 29 OCT 2001			
Applicant's or agent's file reference MBZ-001 PC	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US01/12097	International filing date (day/month/year) 13 APRIL 2001			
Applicant METABOLON, INC.				
Filing of amendments and statement under Articl The applicant is entitled, if he so wishes, to amend When? The time limit for filing such amendments	the claims of the international application (see Rule 46): ments is normally 2 months from the date of transmittal of the or more details, see the notes on the accompanying sheet.  WIPO ettes erland			
For more detailed instructions, see the notes on				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.				
the protest together with the decision thereo the applicant's request to forward the texts  Offices.	additional fee(s) under Rule 40.2, the applicant is notified that: on has been transmitted to the International Bureau together with of both the protest and the decision thereon to the designated st; the applicant will be notified as soon as a decision is made.			
4. Further action(s): The applicant is reminded of the following:				
If the applicant wishes to avoid or postpone publication	national application will be published by the International Bureau. on, a notice of withdrawal of the international application, or of the as provided in rules 90 $bis$ 1 and 90 $bis$ 3, respectively, before the ional publication.			
Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).				
Within 20 months from the priority date, the applicant before all designated Offices which have not been elected priority date or could not be elected because they are	must perform the prescribed acts for entry into the national phase cted in the demand or in a later election within 19 months from the re not bound by Chapter II.			
Name and mailing address of the ISA/US  Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231  Faccimile No. (703) 305-3230	Authorized officer  ARUN CHARRABARITI  Telephone No. (708) 308-0196			

Form PCT/ISA/220 (July 1998)\*

(See notes on accompanying sheet)

## PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference MBZ-001PC					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/US01/12097	13 APRIL 2001	14 APRIL 2000			
Applicant METABOLON, INC.					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.					
This international search report consists of a total of sheets.  X It is also accompanied by a copy of each prior art document cited in this report.					
language in which it was filed the international search wa Authority (Rule 23.1(b)).  b. With regard to any nucleotide was carried out on the basis of contained in the internation filed together with the internation furnished subsequently to the statement that the subthe the statement that the information furnished.  2. Certain claims were found the contained in which internation is lack.  4. With regard to the title,	of the sequence listing:  In all application in written form.  Pernational application in computer readable for this Authority in written form.  This Authority in computer readable form.  In sequently furnished written sequence listing of the thing of	he international application furnished to this international application, the international search orm.			
Box III. The applicant may search report, submit com	ed, according to Rule 38.2(b), by this Authori t, within one month from the date of mailing of ments to this Authority.	f this international			
6. The figure of the drawings to be as suggested by the applic	published with the abstract is Figure No cant.	None of the figures.			
because the applicant faile	d to suggest a figure.	Toke of the lightest			
because this figure better	characterizes the invention.				

### INTERNATIONAL SEARCH REPORT

International application No. PCT/US01/12097

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) :C12Q 1/68; A61K 48/00  US CL :495/6; 514/44  According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED				
	ocumentation searched (classification system followed	by classification symbols)		
	495/6; 514/44			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST, STN, MEDLINE, BIOSIS, CAPLUS, EMBASE search terms: drug, toxin, nucleus, mitochondria, disease, effect, efficacy				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.	
X	US 5,977,083 A (BURCOGLU) 02 November 1999, see entire 1-54 document.			
X	US 5,565,323 A (PARKER et al) 15 October 1996, see entire document.			
X,E	US 6,218,117 B1 (HERRNSTADT et al) 17 April 2001, see entire document.			
Y	WO 99/38013 A2 (XERON PHARMACEUTICALS) 29 July 1999, see abstract.			
	,			
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents:  "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
	be of particular relevance rlier decument published on or after the international filing date	"X" document of particular relevance; the		
cit	cument which may throw doubts on priority claim(s) or which is sed to establish the publication date of another citation or other ectal reason (as specified)	when the document is taken alone  "Y" document of particular relevance; the considered to involve an inventive step	e claimed invention cannot be	
	cument referring to an oral disclosure, use, exhibition or other cans	with one or more other such docur obvious to a person skilled in the art	nents, such combination being	
	cument published prior to the international filing date but later an the priority date claimed	"&" document member of the same patent		
Date of the actual completion of the international search  Date of mailing of the international search 29 OCT 2001				
Name and mailing address of the ISA/US  Authorized Picer				
Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231  ARUNCHAKRABARTI				
Facsimile 1		Telephone No. (703) 308-0196		

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

### What parts of the international application may be amended?

The claims only.

The description and the drawings may only be amended during international preliminary examination under Chapter II.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are secrived by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A seplecement short must be submitted for each short of the claims which, on account of an amendment or amendments, differs from the short originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

#### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

-The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.